

Copy for the Elected Office (EO/US)
PATENT COOPERATION TREATY

PCT/FI99/00425

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE

(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

From the INTERNATIONAL BUREAU

To:

KOLSTER OY AB
Iso Roobertinkatu 23
P.O. Box 148
FIN-00121 Helsinki
FINLANDE

Date of mailing (day/month/year) 14 December 2000 (14.12.00)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 2980171PC/nu	
International application No. PCT/FI99/00425	International filing date (day/month/year) 17 May 1999 (17.05.99)

1. The following indications appeared on record concerning:

☒ the applicant ☒ the inventor ☐ the agent ☐ the common representative

Name and Address

KIRJAVAINEN, Kari
Kivenlahdenkatu 11 A 4
FIN-02320 Espoo
Finland

State of Nationality
FI

State of Residence
FI

Telephone No.

Facsimile No.

Teleprinter No.

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☐ the person ☐ the name ☒ the address ☐ the nationality ☐ the residence

Name and Address

KIRJAVAINEN, Kari
Palomäentie 14 B 13
FIN-33230 Tampere
Finland

State of Nationality
FI

State of Residence
FI

Telephone No.

Facsimile No.

Teleprinter No.

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

☒ the receiving Office ☐ the designated Offices concerned
☐ the International Searching Authority ☒ the elected Offices concerned
☐ the International Preliminary Examining Authority ☐ other:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer C. Cupello
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL BUREAU

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

SEPPÖ LAINE OY
Itämerenkatu 3
FIN-00180 Helsinki
FINLANDE

Date of mailing (day/month/year)

18 October 2000 (18.10.00)

Applicant's or agent's file reference

HUL 1 PCT

IMPORTANT NOTIFICATION

International application No.

PCT/FI99/00288

International filing date (day/month/year)

06 April 1999 (06.04.99)

1. The following indications appeared on record concerning:



the applicant



the inventor



the agent



the common representative

Name and Address

HELSINKI UNIVERSITY LICENSING LTD. OY
Koetilantie 3
FIN-00710 Helsinki
Finland

State of Nationality

FI

State of Residence

FI

Telephone No.

Facsimile No.

Teleprinter No.

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:



the person



the name



the address



the nationality



the residence

Name and Address

HELSINKI UNIVERSITY LICENSING LTD. OY
Viikinkaari 6
FIN-00710 Helsinki
Finland

State of Nationality

FI

State of Residence

FI

Telephone No.

Facsimile No.

Teleprinter No.

3. Further observations, if necessary:

4. A copy of this notification has been sent to:



the receiving Office



the International Searching Authority



the International Preliminary Examining Authority



the designated Offices concerned



the elected Offices concerned



other:

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Authorized officer

Aino Metcalfe

Facsimile No.: (41-22) 740.14.35

Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents
United States Patent and Trademark
Office
Box PCT
Washington, D.C.20231
ÉTATS-UNIS D'AMÉRIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 16 December 1999 (16.12.99)	
International application No. PCT/FI99/00288	Applicant's or agent's file reference HUL 1 PCT
International filing date (day/month/year) 06 April 1999 (06.04.99)	Priority date (day/month/year) 03 April 1998 (03.04.98)
Applicant RÄSÄNEN, Markku et al	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:
26 October 1999 (26.10.99)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

<p>The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland</p> <p>Facsimile No.: (41-22) 740.14.35</p>	<p>Authorized officer</p> <p>Jean-Marie McAdams</p> <p>Telephone No.: (41-22) 338.83.38</p>
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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference HUL 1 PCT	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/FI99/00288	International filing date (day/month/year) 06.04.1999	Priority date (day/month/year) 03.04.1998
International Patent Classification (IPC) or national classification and IPC7 G 01 N 21/67		
Applicant Helsinki University Licensing Ltd Oy et al		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of _____ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 26.10.1999	Date of completion of this report 16.06.2000
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. 08-667 72 88	Authorized officer Moa Grönkvist/ELY Telephone No. 08-782 25 00

Form PCT/IPEA/409 (cover sheet) (January 1994)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/FI99/00288

I. Basis of the report

1. This report has been drawn on the basis of *(Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.)*:

- ☒ the international application as originally filed.
- ☐ the description, pages _____, as originally filed,
pages _____, filed with the demand,
pages _____, filed with the letter of _____,
pages _____, filed with the letter of _____.
- ☐ the claims, Nos. _____, as originally filed,
Nos. _____, as amended under Article 19,
Nos. _____, filed with the demand,
Nos. _____, filed with the letter of _____,
Nos. _____, filed with the letter of _____.
- ☐ the drawings, sheets/fig _____, as originally filed,
sheets/fig _____, filed with the demand
sheets/fig _____, filed with the letter of _____,
sheets/fig _____, filed with the letter of _____.

2. The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the supplemental Box (Rule 70.2(c)).

4. Additional observations, if necessary:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/FI99/00288

V. Resoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>2-3, 5-9, 11-13, 15-30</u>	YES
	Claims	<u>1, 4, 10, 14</u>	NO
Inventive step (IS)	Claims	<u>5, 12, 13</u>	YES
	Claims	<u>1-4, 6-11, 14-30</u>	NO
Industrial applicability (IA)	Claims	<u>1-30</u>	YES
	Claims		NO

2. Citations and explanations

The claimed invention relates to a method and an apparatus determining the concentration of gas components in a closed space with at least one transparent, dielectric wall. An alternating high voltage is applied to the spacing and emitted light is collected.

The following documents are cited in the International Search Report:

D1: WO 9625658
D2: US 5198773
D3: US 5168323

Cited document D1 relates to a method and a device for determining the pressure of gases, especially in electric lamps. A high-frequency generator applies a high voltage over the spacing and at least one gas of interest is measured selectively. Two spectral lines are measured and a ratio is formed, from which the pressure of a gas is determined.

D2 relates to a method for determining the gas content of a glass window unit. A voltage is applied over the unit with plate electrodes.

The subject matter claimed in claims 1 and 10 does not differ from D1. Thus, the independent claims 1 and 10 are not novel.

The subject matter claimed in claim 11 differs from D1 in that the spacing is a gas-filled window glazing unit. It is considered to be obvious to a person skilled in the art to use the measuring method in D1 on window units in view of D1 and D2. Therefore, Claim 11 is not considered to involve an inventive step in view of D1 and D2. For the same reasons, claims 2 and 3 are not considered to involve an inventive step.

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: V.

The subject matter claimed in claims 4 and 14 does not differ from D1. The subject matter claimed in claims 6-9 and 15-30 concern different technical solutions for collecting and transporting the emitted light. These claims are not considered to involve an inventive step in view of D1 and D2.

The independent claims 5 and 12 differ from D1 and D2 in that an elongated electrode is used to apply the high voltage over the spacing. Independent claim 13 differs from D1 and D2 in that the means for applying the high voltage comprises a conductive layer. The invention claimed in claims 5, 12 and 13 is considered to differ significantly from D1 and D2 and thus involves an inventive step.

According to the arguments stated above, the invention claimed in claims 1, 4, 10 and 14 is not novel and is not considered to involve an inventive step. The invention claimed in claims 2-3, 6-9, 11 and 15-30 is novel but not considered to involve an inventive step. The invention claimed in claims 5, 12 and 13 is novel and is considered to involve an inventive step.

PATENT COOPERATION TREATY

PCT

REC'D 29 JUN 2000

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference HUL 1 PCT	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/FI99/00288	International filing date (day/month/year) 06.04.1999	Priority date (day/month/year) 03.04.1998
International Patent Classification (IPC) or national classification and IPC7 G 01 N 21/67		
Applicant Helsinki University Licensing Ltd Oy et al		

<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of _____ sheets.</p>
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>

Date of submission of the demand 26.10.1999	Date of completion of this report 16.06.2000
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. 08-667 72 88 Telex 17978 PATOREG-S	Authorized officer Moa Grönkvist/ELY Telephone No. 08-782 25 00

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/FI99/00288

I. Basis of the report

1. This report has been drawn on the basis of *(Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.)*:

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- ☐ the description, pages _____, as originally filed,
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 pages _____, filed with the letter of _____,
 pages _____, filed with the letter of _____.
- ☐ the claims, Nos. _____, as originally filed,
 Nos. _____, as amended under Article 19,
 Nos. _____, filed with the demand,
 Nos. _____, filed with the letter of _____,
 Nos. _____, filed with the letter of _____.
- ☐ the drawings, sheets/fig _____, as originally filed,
 sheets/fig _____, filed with the demand
 sheets/fig _____, filed with the letter of _____,
 sheets/fig _____, filed with the letter of _____.

2. The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
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- ☐ the drawings, sheets/fig _____

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the supplemental Box (Rule 70.2(c)).

4. Additional observations, if necessary:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/FI99/00288

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims	<u>2-3, 5-9, 11-13, 15-30</u>	YES
	Claims	<u>1, 4, 10, 14</u>	NO
Inventive step (IS)	Claims	<u>5, 12, 13</u>	YES
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Industrial applicability (IA)	Claims	<u>1-30</u>	YES
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/fi99/00288

Supplemental Box

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Continuation of: V.

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